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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/580,948 | 05/30/2006 | Tatsuo Kataoka | 1217-061417 | 8887 |
| 28289 7590 09/11/2007 THE WEBB LAW FIRM, P.C. | | EXAMINER | | |
| 700 KOPPERS BUILDING | | | PATEL, ISHWARBHAI B | |
| 436 SEVENTH AVENUE PITTSBURGH, PA 15219 | | | ART UNIT | PAPER NUMBER |
| | · | | 2841 | |
| | | | | |
| | | • | MAIL DATE | DELIVERY MODE |
| | | | 09/11/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
|---|---|--|--|--|--|
| | 10/580,948 | KATAOKA ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Ishwar (I. B.) Patel | 2841 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on 30 M 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E | action is non-final. | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-11 are subject to restriction and/or experienced. Application Papers 9) The specification is objected to by the Examined applicant may not request that any objection to the examined applicant drawing sheet(s) including the correction of the examined application. | vn from consideration. election requirement. r. epted or b) □ objected to by the I drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the I | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | | | |

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claim(s) 1-4, drawn to a process for producing a printed wiring board, classified in class/ subclass: 29/832+.
- Group II, claim(s) 5-10, drawn to a printed wiring board, classified in class/subclass: 174/255.
- Group III, claim(s) 11, drawn to a circuit device comprising the printed wiring board and electronic component, classified in class/subclass: 174/260.
- 2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Regarding group I, the special technical features include the steps of depositing a base metal on one surface of an insulating film, depositing copper or copper alloy on a surface of base metal and selectively etching the same. In contrast, the special technical features of group II include a wiring pattern on an insulating film with a base metal layer for forming

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the wiring pattern being protruded widthwise more than the conductive metal layer for forming the wiring pattern and the special technical features of group III include an electronic component mounted on a circuit board.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by

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a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571)

272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dean Reichard can be reached on (571) 272 1984. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 23, 2007

Ishwar (I. B.) Patel Primary Examiner

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